

Search
Notes
C. Hamilton

[Sign in](#)
[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) [more »](#)

CAMPHOR

[Advanced Search](#)
[Preferences](#)

Web

 Results 1 - 10 of about 2,420,000 for **CAMPHOR** [definition]. (0.13 seconds)

[botanical.com - A Modern Herbal | Camphor - Herb Profile and ...](#)

Providing botanical, folk-lore and herbal information, plus organic herbs, and herbal products.

www.botanical.com/botanical/mgmh/c/campho13.html - 10k -

[Cached](#) - [Similar pages](#)

[Camphor - Wikipedia, the free encyclopedia](#)

Camphor is a white transparent waxy crystalline solid with a strong ...
A form

of anti-itch gel currently on the market uses **camphor** as its active ...

en.wikipedia.org/wiki/Camphor - 25k - [Cached](#) - [Similar pages](#)

[Totoro.Org - The Camphor Tree](#)

A website about the movie My Neighbor Totoro (Tonari no Totoro). This site contains

information, images and downloads.

www.totoro.org/ - 8k - [Cached](#) - [Similar pages](#)

[Camphor \(PIM 095\)](#)

Springfield, Illinois, CC Thomas. Aronow R (1976). **Camphor**

Poisoning. J Am Med

Assoc, 235: 126O. ... Arch Toxicol 51: 101-106. Kresel JJ (1982)

Camphor. ...

www.inchem.org/documents/pims/pharm/camphor.htm - 95k -

[Cached](#) - [Similar pages](#)

[DL-Camphor](#)

The odor of **camphor** on the breath or in urine may assist in diagnosis of overexposure.

Tests may be needed to differentiate between chronic **camphor** toxicity ...

www.jtbaker.com/msds/englishhtml/c0594.htm - 19k -

[Cached](#) - [Similar pages](#)

[Camphor](#)

An extract from the **camphor** laurel tree, **camphor** is a member of the ... **Camphor** is

used in the manufacture of cellulose nitrate film as a plasticiser. ...

[www.screen sound.gov.au/glossary.nsf/Pages/Camphor?](http://www.screen sound.gov.au/glossary.nsf/Pages/Camphor?OpenDocument)

[OpenDocument](#) - 13k - [Cached](#) - [Similar pages](#)

[Camphor](#)

Relatively soft, medium-grained, and highly aromatic **camphor** wood is prized for its pungent scent and reputed bug-repellent properties when used as ...

www.hawaii.gov/hfciforest/non-native/comphor.html - 2k - [Cached](#) - [Similar pages](#)

Sponsored Links

[Camphor](#)

Looking for **Camphor**?

Find exactly what you want today

www.eBay.com

[Menthol-USA.com](#)

We supply ingredients to US domestic market, Canada and Mexico.

www.menthol-usa.com

[Camphor Tincture](#)

Buy **Camphor** health Supplement

Camphor Health Supplement

www.herbalremedies.com

[Camphor](#)

Shop for This & Other Hard to Find Brands in Our Online Apothecary!

www.vermontcountrystore.com

[camphor-On Sale](#)

Nature's Alchemy

Fast Shipping, Free Over \$50

Internatural-alternative-health.com

[Camphor Oil](#)

Guaranteed 100% pure essential oil.

Great prices, selection and info.

ZooScape.com

[Chinese Camphor](#)

HungKuk offers Synthetic **Camphor**

Tech, DAB, BP, USP and JP Grade.

www.hungkuk.com.hk/products.htm

[New Vicks Cold Products](#)

Allcures have a great range of

Vicks products online today!

www.allcures.com

[Sign in](#)[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) [more »](#)

OXO OXY

[Advanced Search](#)
[Preferences](#)**Web**Results 1 - 10 of about **147,000** for **OXO OXY**. (0.33 seconds)**Product search results for OXO OXY**

(-)-3-Oxo-6-beta-trityloxymethyl-7-alpha-benzoyl-oxy-2 ... - \$74.10 - Cole-Parmer Instrument Company
 4-Oxo-4-phenylamino-2-butenic acid 97% (50g) - \$91.70 - Cole-Parmer Instrument Company
 (-)-3-Oxo-6-beta-t.-butyldimethylsilyloxymethyl-7-alpha ... - \$129.30 - Cole-Parmer Instrument Company

Two-Letter and Three-Letter Scrabble Words

... ODS OES OFF OFT OHM OHO OHS OIL OKA OKE OLD OLE
 OMS ONE ONS OOH OOT OPE OPS OPT ORA ORB ORC ORE
 ORS ORT OSE OUD OUR OUT OVA OWE OWL OWN **OXO OXY**
 PAC PAD ...

phrontistery.info/scrabble3.html - 19k - [Cached](#) - [Similar pages](#)

Joseph Michael Daly, April 9, 1922—August 18, 1993 | By Myron K ...

As with H. maydis T-toxin, the PM toxin has four clusters of **oxo/oxy** groups ... However, the PM-toxin mostly has only two **oxo/oxy** groups per cluster rather ...

www.nap.edu/readingroom/books/biomems/jdaly.html - 30k -

[Cached](#) - [Similar pages](#)

[PDF] Untitled

File Format: PDF/Adobe Acrobat - [View as HTML](#)

maydis T-toxin, the PM toxin has four clusters of **oxo/oxy** groups separated by three or five ... ever, the PM-toxin mostly has only two **oxo/oxy** groups per ...

www.nap.edu/readingroom/books/biomems/jdaly.pdf -

[Similar pages](#)

[PDF] oxoacids Oxoacids (and its variants oxyacids, oxo acids, oxy-acids ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

Oxoacids (and its variants oxyacids, **oxo** acids, **oxy**-acids, oxiacids, ox-, acids) is a traditional name for any acid having oxygen in the acidic group. ...

www.iupac.org/goldbook/O04374.pdf - [Similar pages](#)

TWO-LETTER WORDS AA AB AD AE AG AH AI AL AM AN AR AS AT AW AX AY ...

... OES OFF OFT OHM OHO OHS OIL OKA OKE OLD OLE OMS
 ONE ONO ONS OOH OOT OPE OPS OPT ORA ORB ORC ORE
 ORS ORT OSE OUD OUR OUT OVA OWE OWL OWN **OXO OXY**
 PAC PAD ...

www.scrabblejunction.org/Lists/starthere.txt - 34k -

[Cached](#) - [Similar pages](#)

[oxy @plaz](#)**Sponsored Links****OXO® Good Grips**

cook, clean, and garden easier
 Over 250 **OXO** Products
industrialhouse.com

Buy Oxo Products on Sale

Free fast shipping! Huge selection.
 Order now and save. Low prices.
www.amazon.com

Oxo

Great Savings of 10% - 20% Online
 Shop Target.com
www.Target.com

OXO at Annex Cookery

OXO Utensils and Gadgets
 Free Shipping Over \$99 - Low Prices
www.AnnexCookery.com

OXO at MACY'S

Shop **OXO** kitchen gadgets online
 at MACY'S.
www.macys.com

Shop OXO Tools at CHEF'S

Cook Like A Pro With Top Quality
 Kitchen Tools & More From CHEF'S!
www.chefscatalog.com

oxo on eBay

Buy **oxo**
 on sale now on eBay. Aff.
www.ebay.com

Oxo

Bakeware, Cookware, Small Appliance
 Low Price & Satisfaction Guarantee!
www.Kitchenetc.com

[Sign in](#)[Web](#) [Images](#) [Groups](#) [News](#) [Froogle](#) [Local](#) [more »](#)

OXOCYCLOALKYL

[Advanced Search](#)
[Preferences](#)**Web**

Results 11 - 20 of about 79 for OXOCYCLOALKYL. (0.81 seconds)

Thieme-connect / Synthesis / Table of contents

ODA, Masaji; KITAHARA, Yoshio: Reaction of 2-Chlorotropone with Enamines.

Synthesis of 2-(2-Oxocycloalkyl)-tropone PDF (121 kb) ...

www.thieme-connect.com/ejournals/toc/synthesis/1335 - [Similar pages](#)[[More results from www.thieme-connect.com](#)]United States Patent Application: 0050014095

Specific examples of the 2-oxocycloalkyl formed by bonding P.sup.8 and P.sup.9 together with the adjacent -CHCO- include 2-oxocyclohexyl, 2-oxocyclopentyl ...

appft1.uspto.gov/.../20050014095&RS=DN/20050014095 - 84k - Supplemental Result - [Cached](#) - [Similar pages](#)Put Your Title Here

Synthesis and affinities for Dopamine (D2) and 5-hydroxytryptamine (5-HT2A)

receptors of 1-(benzoylpropyl)-4-(1-oxocycloalkyl-2-ethyl)-piperazines as cyclic ...

www.cajal.csic.es/departam/depplasne/TTPN4/publiche.htm - 10k - [Cached](#) - [Similar pages](#)PUBL1996

... and 5-hydroxytryptamine (5-HT2A) receptors of

1-(benzoylpropyl)-4-(1-oxocycloalkyl-2-ethyl)-piperazines as cyclic butyrophenones derivatives Chem. Phar. ...

www.cajal.csic.es/publicac/publ1996.htm - 59k - [Cached](#) - [Similar pages](#)Patent 4126708: Flavoring with 2-acyl-5-substituted ...

... R.sub.4 and R.sub.8 are the same or different and each represents hydrogen or methyl), hydroxyalkyl, oxoalkyl, hydroxycycloalkyl or oxocycloalkyl having the ...

freepatentsonline.com/4126708.html - 52k - Supplemental Result - [Cached](#) - [Similar pages](#)Patent 5635332: Alkylsulfonium salts and photoresist compositions ...

in R.sup.3, the C.sub.5 -C.sub.7 2-oxocycloalkyl radical includes, ... in particular,

It is believed that the ketone group (2-oxocycloalkyl group) structure ...

freepatentsonline.com/5635332.html - Supplemental Result - [Similar pages](#)Published by The Royal Society of Chemistry

photoactivated 5-FU prodrugs 1-2 were synthesized using A similar method as for

The preparation of 1-(2-oxocycloalkyl)-5-fluorouracils reported Previously. ...

www.rsc.org/.../ArticleLinking.cfm?JournalCode=OB&Year=2005&ManuscriptID=b417734g&Iss=4 -Supplemental Result - [Similar pages](#)Chemical amplifying type positive resist composition and sulfonium ...

... sup.4 represents alkyl or a cycloalkyl, or Q.sup.3 and Q4 form, together with a CHC(O) group to which Q.sup.3 and Q4 are adjacent, a 2-oxocycloalkyl group; and ...

www.patentalert.com/docs/000/z00066588.shtml - 8k - Supplemental Result - [Cached](#) - [Similar pages](#)Fresh Patents-Positive resist composition patent apps

... 3 to 10 carbon atoms or phenyl optionally substituted by alkyl having 1 to 6 carbon atoms, or Q.sup.3 and Q.sup.4 bond to form 2-oxocycloalkyl together with ...

www.freshpatents.com/Positive-resist-composition-dt20041111ptan20040224251.php - 101k - Supplemental Result - [Cached](#) - [Similar pages](#)

Balloup
in Search Notes
Wikipedia Results
Camphor search results

Camphor

From Wikipedia, the free encyclopedia

Camphor is a white transparent waxy crystalline solid with a strong penetrating pungent aromatic odor. It is a terpenoid with the chemical formula $C_{10}H_{16}O$. It is found in wood of the camphor laurel (*Cinnamomum camphora*), a large evergreen tree found in Asia (particularly in Borneo, hence its alternate name); it can also be synthetically produced from oil of turpentine. It is used for its scent, as an embalming fluid and for medicinal purposes.

Modern uses include as a plasticizer for cellulose nitrate, as a moth repellent, as an antimicrobial substance, in embalming, and in fireworks. A form of anti-itch gel currently on the market uses camphor as its active ingredient. It is also used in medicine. Camphor is readily absorbed through the skin and produces a feeling of cooling similar to that of menthol and acts as slight local anesthetic and antimicrobial substance. It may also be administered orally in small quantities (50 mg) for minor heart symptoms and fatigue. Camphor is also used as a flavoring in sweets in India and Europe. It is thought that camphor was used as a flavouring in confections resembling ice cream in China during the Tang dynasty (A.D. 618-907).

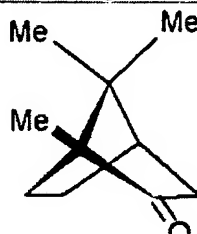
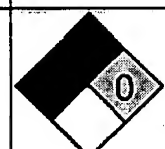
In larger quantities, it is poisonous when ingested and can cause seizures, confusion, irritability, and neuromuscular hyperactivity. In 1980, the United States Food and Drug Administration set a limit of 11% allowable camphor in consumer products and totally banned products labeled as camphorated oil, camphor oil, camphor liniment, and camphorated liniment (but camphor is absent in "white camphor essential oil"). Since alternative treatments exist, medicinal use of camphor is discouraged by the FDA, except for skin-related uses, such as medicated powders, which contain only small amounts of camphor.

Other substances deriving from trees are sometimes wrongly sold as camphor.

The word camphor derives from the Malay word *kapur*, meaning "camphor tree" [1]

(<http://www.etymonline.com/index.php?search=camphor&searchmode=none>).

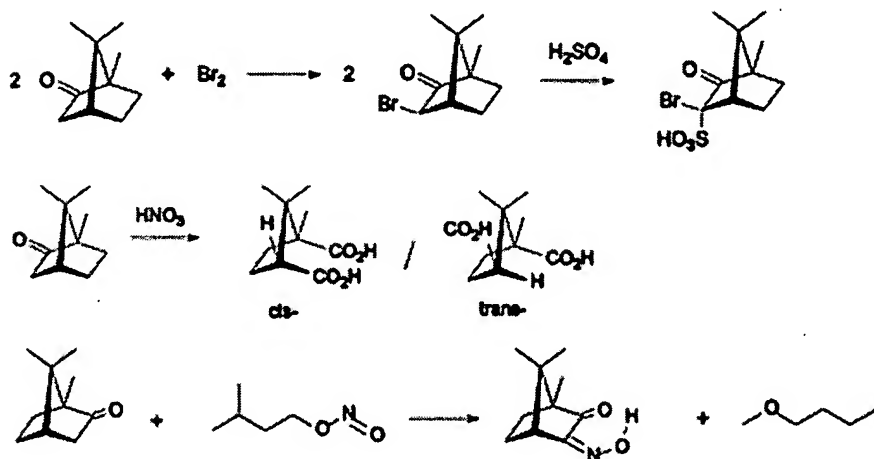
Camphor was the first synthesized by Gustaf Komppa in

Camphor	
	
General	
Systematic name	1,7,7-trimethylbicyclo[2.2.1]heptan-2-one
Other names	2-bornanone, 2-camphanone, bornan-2-one, Formosa
Molecular formula	$C_{10}H_{14}O$
SMILES	<chem>CC1(C)C2(C)C(CC1CC2)=O</chem>
Molar mass	152.23 g/mol
Appearance	White or colourless crystals
CAS number	[76-22-2] (unspecified) [464-49-3] ((1 <i>R</i>)-Camphor) [464-48-2] ((1 <i>S</i>)-Camphor)
Properties	
Density and phase	0.990, solid
Solubility in water	0.12 g in 100 ml
Solubility in acetic acid	~200 g in 100 ml
Solubility in ethanol	~100 g in 100 ml
Solubility in acetone	~250 g in 100 ml
Solubility in ether	~100 g in 100 ml
Solubility in chloroform	~200 g in 100 ml
Melting point	179.75 °C (452.9 K)
Boiling point	204 °C (477 K)
Acidity (pK_a)	?
Chiral rotation $[\alpha]_D$	+44.1°, (1 <i>R</i>)-Camphor
Hazards	
MSDS	External MSDS
Main hazards	flammable
NFPA 704	
R-phrases	11-20/21/22-36/37/38
S-phrases	16-26-36
RTECS number	EX1260000 (<i>R</i>) EX1250000 (<i>S</i>)
Supplementary data page	
Structure and	n , ϵ , etc.

1903. Previously, some organic compounds (such as urea) had been synthesized in the laboratory as a proof of concept, but camphor was a scarce natural product with a worldwide demand. The synthesis was the first industrial total synthesis, when Komppa began industrial production in Tainionkoski, Finland in 1907.

Reactions

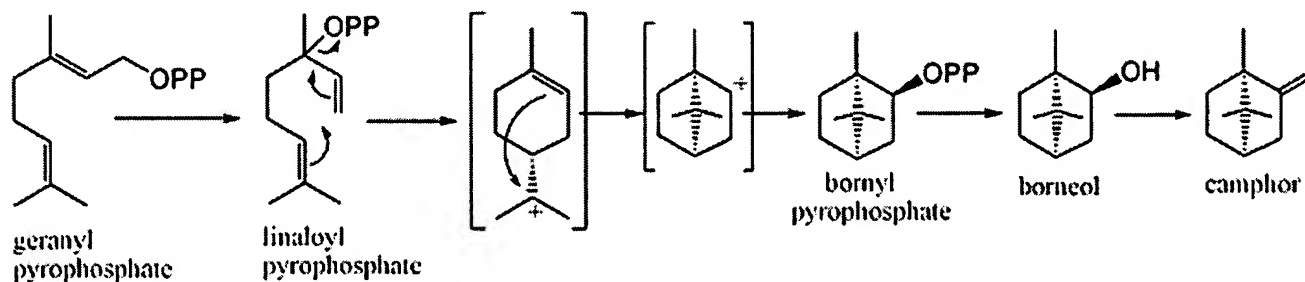
properties	
Thermodynamic data	Phase behaviour Solid, liquid, gas
Spectral data	UV, IR, NMR, MS
Related compounds	
Related ketones	fenchone, thujone
Related compounds	camphene, pinene borneol, isoborneol 10-Camphorsulfonic acid
Except where noted otherwise, data are given for materials in their standard state (at 25 °C, 100 kPa) Infobox disclaimer and references	



Camphor can also be reduced to isoborneol using sodium borohydride.

Biosynthesis

Camphor is produced from geranyl pyrophosphate, via cyclisation of linaloyl pyrophosphate to bornyl pyrophosphate, followed by hydrolysis to borneol and oxidation to camphor.



References

- J. Mann, R. S. Davidson, J. B. Hobbs, D. V. Banthorpe, J. B. Harborne, *Natural Products*, pp. 309-311, Addison Wesley Longman Ltd., Harlow, UK, 1994. ISBN 0582060095.
- Handbook of Chemistry and Physics*, CRC Press, Ann Arbor, Michigan.
- The Merck Index*, 7th edition, Merck & Co, Rahway, New Jersey, USA, 1960.

Retrieved from "<http://en.wikipedia.org/wiki/Camphor>"

Categories: Pyrotechnic chemicals | Ketones | Terpenes and terpenoids | Materials involved in Hinduism

- This page was last modified 22:04, 31 January 2006.
- All text is available under the terms of the GNU Free Documentation License (see **Copyrights** for details).
Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc.
- Privacy policy
- About Wikipedia
- Disclaimers

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	2561	S1 and (\$sulfonium\$ \$sulphonium\$) looked at all	US-PGPUB; USPAT	OR	ON	2006/02/01 16:56
S3	2561	S1 and (\$sulfonium\$ \$sulphonium\$) cancel	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/01 19:57
S1 was same as S6 below but disappeared upon refresh and was cancelled as unneeded so removed from Hist. List unententionally						
S4	27846	(\$sulfonium\$ \$sulphonium\$)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/01 16:59
S5	4411	(\$sulfonium\$ \$sulphonium\$)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/01 16:57
S6	5043	(430/270.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/02/01 16:58
S7	16	(\$sulfonium\$ \$sulphonium\$) Looked at all ^{2/5/06}	IBM_TDB	OR	ON	2006/02/01 17:02
S8	2918	(\$sulfonium\$ \$sulphonium\$)	DERWENT	OR	ON	2006/02/01 17:02
S9	542	(\$sulfonium\$ \$sulphonium\$) and g03f\$.ipc.	DERWENT	OR	ON	2006/02/01 17:02
S10	1	1997-179149.NRAN.	DERWENT	OR	OFF	2006/02/01 18:23
S11	2561	S1 and (\$sulfonium\$ \$sulphonium\$) not S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/02 15:51
S12	5049	(430/270.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/02/02 15:52
S13	542	(\$sulfonium\$ \$sulphonium\$) and g03f\$.ipc.	DERWENT	OR	ON	2006/02/02 15:52
S14	2278	S12 and (\$sulfonium\$ \$sulphonium\$) AND (positiv\$5 chemic\$ near5 amplif\$10) not S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/04 20:06
S15	2278	(S12 and (\$sulfonium\$ \$sulphonium\$) AND (positiv\$5 chemic\$ near5 amplif\$10)) not S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/02 15:57
S16	510	(430/921.922,914).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/02/04 14:04
S17	412	S16 AND (\$SULFONIUM\$ \$SULPHONIUM\$)	US-PGPUB; USPAT	OR	OFF	2006/02/04 14:05
S18	1517	"522"/\$.CCLS. AND (\$SULFONIUM\$ \$SULPHONIUM\$)	US-PGPUB; USPAT	OR	OFF	2006/02/04 14:06
S19	1825	S17 OR S18	US-PGPUB; USPAT	OR	OFF	2006/02/04 14:06
S20	510	(430/921.922,914).CCLS:	US-PGPUB; USPAT	OR	OFF	2006/02/04 19:49
S21	412	S20 AND (\$SULFONIUM\$ \$SULPHONIUM\$)	US-PGPUB; USPAT	OR	OFF	2006/02/04 19:49

S22	1517	"522"\$.CCLS. AND (\$SULFONIUM\$ \$SULPHONIUM\$)	US-PGPUB; USPAT	OR	OFF	2006/02/04 19:49
S23	1825	S21 OR S22	US-PGPUB; USPAT	OR	OFF	2006/02/04 19:49
S24	CH 1244	S23 NOT 430/270.1.CCLS.	US-PGPUB; USPAT	OR	OFF	2006/02/04 19:58
S25	CH 375	430/281.1.CCLS. and (\$sulfonium\$ \$sulphonium\$) AND (positiv\$5 chemic\$ near5 amplif\$10)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/04 20:06
S26	5049	(430/270.1).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/02/04 20:07
S27	542	(\$sulfonium\$ \$sulphonium\$) and g03f\$.ipc.	DERWENT	OR	ON	2006/02/04 20:07
S28	2278	S26 and (\$sulfonium\$ \$sulphonium\$) AND (positiv\$5 chemic\$ near5 amplif\$10) not S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/04 20:08
S29	CH 157	430/281.1.CCLS. and (\$sulfonium\$ \$sulphonium\$) AND (positiv\$5 chemic\$ near5 amplif\$10) not S27 NOT 430/270.1.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/04 20:19
S30	CH 71	430/280.1.CCLS. and (\$sulfonium\$ \$sulphonium\$) AND (positiv\$5 chemic\$ near5 amplif\$10) not S27 NOT 430/270.1,281.1.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/04 20:23
S31	CH 15	430/285.1.CCLS. and (\$sulfonium\$ \$sulphonium\$) AND (positiv\$5 chemic\$ near5 amplif\$10) not S27 NOT 430/270.1,281.1,280.1.CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/04 20:23

initialed all S #'s Fully Looked at images
 Cynthia Hamilton (2 pages)
 2/5/2006